

**AMENDMENTS TO THE SPECIFICATION**

**IN THE SPECIFICATION**

On page 9, line 1, please replace numbered paragraph [0019] with the following paragraph:

-- [0019]

Example 3: synthesis of a long chain-oligomer using a DNA synthesizer

d[CCCCCTTTCTCTCTCT] (SEQ ID NO: 1) and [TTAAAAATTATTAAATTATT] (SEQ ID NO: 2) were synthesized by means of DNA/RNA Synthesizer 392 (Applied Biosystem Inc.(ABI)).

The synthesis of the DNA oligomer was carried out using HCP solid phase support having an end thymidine introduced thereon (1  $\mu$ mol, 28  $\mu$ mol/g, succinyl linker) and a mixture of 0.2 M  $^{18}\text{F}$ Bt (6-trifluoromethylbenzotriazole-1-ol: the alcohol-type activator) and 0.2 M BIT (benzimidazoletriflate: the acid catalyst) in  $\text{CH}_3\text{CN}$ -N-methyl-2-pyrrolidone (15:1, v/v) solvent. Each elongation cycle of the synthesis is shown in TABLE 2.--

On page 10, line 1 please replace numbered paragraph [0021] with the following paragraph:

--[0021]

The DMTr group was then removed with 3 % trichloroacetic acid in  $\text{CH}_2\text{Cl}_2$  (2 mL) for one minute, and the solid phase support was washed with  $\text{CH}_2\text{Cl}_2$  (1 mL x 3) and  $\text{CH}_3\text{CN}$  (1 mL x 3). Finally the solid phase support was treated with conc. ammonia water (500  $\mu$ L) to be excised to give a desired product.

d[CCCCCTTTCTCTCTCT] (SEQ ID NO: 1), Mass (M+H) calcd 5868.23, found 5869.92;

Enzyme Assay dC:T = 1.00:0.99, isolated yield 79%.

[TTAAAAATTATTAAATTATT] (SEQ ID NO: 2), Mass (M+Na) calcd 6130.31, found 6132.69;

Enzyme Assay dA:T = 1.00:0.94, isolated yield 31%.--

**AMENDMENTS TO THE SEQUENCE LISTING**

**IN THE SEQUENCE LISTING**

Please replace the Sequence Listing of record with the Substitute Sequence Listing enclosed herewith.